**Overall Summary:**

* Many redlines (~88; ~100 after reruns) were observed during the whole Dry Run event.
* Some DRs were generated (for script updates, etc. but no DRs for code changes).

**Concerns Carried Over From SWIT (Not Completely Answered in Reference File):**

**TC01, 7.1.1.1.5**

* Regarding the verification of NPE\_TSW\_SRS-2736

The NPE TSW shall perform a state-of-health test to assure that the entire system is ready for test by verifying communication interfaces and local disk storage space.

It is not clear how the above requirement gets verified with checking the “LBCRHeartbeat” message in a GUI window. There are probably many more state-of-health checks that are needed to assure that the entire system is ready for test.

* Regarding the verification of NPE\_TSW\_SRS-1341:

The NPE TSW shall record all current revision information for all test scripts, TSW SI software current revision information, MDU flight software current revision information, with all test results.

It is not clear where the NPE TSW records all revision information for all test scripts, all TSW SI software current revision information, along with all test results.

There is a report (ScriptResults\_\_\_\_.xls) that contains the MDU flight software current revision information only. However, it is not clear where the NPE TSW records the other information per NPE\_TSW\_SRS-1341:

* + all current revision information for all test scripts
  + all TSW SI software current revision information
  + all test results (including status such as whether test case or subcase completed, passed, failed, was aborted, etc.)

**TC03, 7.1.3.6.5 Validate Nav Message Processing – No Issue**

SID 134 (Utility\_Validate\_Nav\_Message\_Processing.xts)

**TC03, 7.1.3.6.4 SV Attitude message functions – No Issue**

SID 165 (TSW\_SIQT\_Test\_SV\_Attitude\_Msg.xts)

**TC03, 7.1.3.6.3 1553\_Inject\_All\_Telemetry – No Issue**

SID 149 (TSW\_SIQT\_1553\_Inject\_All\_Telemetry.xts)

**TC03, 7.1.3.6.2 1553\_Black Bus – 4 Issues**

SID 158 (Utility\_MDU\_Power\_OnOff.xts)

* It appears that a shortcut was taken and Utility\_MDU\_Power\_OnOff.xts was executed instead of Utility\_MDU\_ReInitialization.xts. For formal SIQT, will the official script per the test procedure (Utility\_MDU\_ReInitialization.xts) be executed? The XTSHistory shows the following warning:

Operator Advisories

This script is not intended as a replacement for the script MDU\_Configuration, but rather as a faster stand-in when expediency of execution is valued over the thoroughness of the official script Utility\_MDU\_ReInitialization.xts.

Invalid comment. Reviewer did not fully understand test, procedure, or data. Explain how it should be interpreted.

Response. Per entry in Log Dated 1/24/2014 @ 20:54:34. “Chose to run reset of MDU due to previous test TC03, 7.1.4.3.7 (TSW.SIQT.MDU\_X1\_Epoch\_Adjust failure) incomplete run. MDU was potentially in Uknown State. Utility\_MDU\_Power\_OnOff was run to power off, then Power up the MDU, MDU Reinitilization was Then run. SID’s 159 thru 162.

SID 159 (Utility\_MDU\_Power\_OnOff.xts)

SID 160 (Utility\_MDU\_ReInitialization.xts)

SID 161 (TSW\_SIQT\_Test\_1553\_Sides.xts)

Note: Did not see a start and end time in ScriptResults file.

Invalid comment. Reviewer did not fully understand test, procedure, or data. Explain how it should be interpreted.

Response. 03:25:57 Execute 03:26:10 completed. From ITT Debugging Mite.log.

SID 162 (Utility\_MDU\_ReInitialization.xts)

* ITT\_Debugging\_MAR: Error DataStorage.DBCommon – AnalyzeFunctions.RecordAnalyzePoint().

The INSERT statement conflicted with the FOREIGN KEY constraint.

Known issue. List the DR if appropriate. Make sure these appear in the reference document.

Response. 2014-01-25 00:53:08.465 [3] ERROR DataStorage.DBCommon – AnalyzeFunctions.RecordAnalyzePoint() – The INSERT Statement conflicted with the FOREIGN KEY conatraint “FK\_AnalyzePoints\_Analyze”; The conflict occurred in database “GPSIII”, Table “dbo.Analyze”, Column ‘Analyze\_ID’. The Statement has been terminated. This appears to be an issue with the Test Set Software and the GPSIII Database on the network server. This issue sometimes presents itself when the server is performing software Backups. (will check with James)

* ITT\_Debugging\_MITE: ERROR STE.SteBase – SteBase – Run XTS

System Invalid Operation Exception: Queue Empty. . .

Test failure we are working. List the DR if appropriate.

Response. Prior to this exception the STE received a “Abort Test Script Command” analyzing why engine was aborting the MDU\_Reinitilization.xts script.

SID 163 (TSW\_SIQT\_Test\_1553\_Sides.xts)

Note: Did not see a start and end time in ScriptResults file.

Test failure we are working. List the DR if appropriate.

Response. MITE Log shows start time 03:25:57 – Finish time 03:26:10. There is no data in Script Results log. Investigating.

SID 164 (Utility\_MDU\_ReInitialization.xts)

* ITT\_Debugging\_MAR: Error DataStorage.DBCommon . . .

The INSERT statement conflicted with the FOREIGN KEY constraint. . . The conflict occurred in database “GPSIII”, table “dbo.Analyze”

Known issue. List the DR if appropriate. Make sure these appear in the reference document.

Response. 2014-01-25 00:53:08.465 [3] ERROR DataStorage.DBCommon – AnalyzeFunctions.RecordAnalyzePoint() – The INSERT Statement conflicted with the FOREIGN KEY conatraint “FK\_AnalyzePoints\_Analyze”; The conflict occurred in database “GPSIII”, Table “dbo.Analyze”, Column ‘Analyze\_ID’. The Statement has been terminated. This appears to be an issue with the Test Set Software and the GPSIII Database on the network server. This issue sometimes presents itself when the server is performing software Backups. (will check with James)

**TC03, 7.1.3.6.1 Bus BDP cmd Transaction – 1 Issue**

SID 147 (MDU\_NDS\_BDP\_Commands.xts)

* ITT\_Debugging\_MAR: Error DataStorage.DBCommon . . .

The INSERT statement conflicted with the FOREIGN KEY . . .

Known issue. List the DR if appropriate. Make sure these appear in the reference document.

Response. 2014-01-25 00:53:08.465 [3] ERROR DataStorage.DBCommon – AnalyzeFunctions.RecordAnalyzePoint() – The INSERT Statement conflicted with the FOREIGN KEY conatraint “FK\_AnalyzePoints\_Analyze”; The conflict occurred in database “GPSIII”, Table “dbo.Analyze”, Column ‘Analyze\_ID’. The Statement has been terminated. This appears to be an issue with the Test Set Software and the GPSIII Database on the network server. This issue sometimes presents itself when the server is performing software Backups. (will check with James)

**TC03, 7.1.3.5.1 HPE Timing Signal – 2 Issues**

SID 147 (TSW\_SIQT\_MDU\_HPE\_Signals.xts) **SID 148**

* XTSHistory: CAL DATA IS NOT FACTORED IN THE DATABASE AT THIS TIME
* ITT\_Debugging\_MITE: CAL DATA IS NOT FACTORED IN THE DATABASE AT THIS TIME

Invalid comment. Reviewer did not fully understand test, procedure, or data. Explain how it should be interpreted.

Please elaborate on the issue with this script. The “Cal Data…” entries are indeed in the logs.

**TC03, 7.1.3.4.3 MDU TestBus – Aborted**

SID 141 (TSW\_SIQT\_MDU\_Test\_Bus.xts) – Aborted

* ITT\_Debugging\_MITE: Aborting all tests is true – Exiting
* No ITT\_Debugging\_Mar log

Known issue. List the DR if appropriate. Make sure these appear in the reference document.

RedLine (-86) Delete Subcase (Pg 43 of 57 in procedure) Aborted Test due to Ste Rework Red bus DDC Pod Clear. (Pg 34 of 57)

**TC03, 7.1.3.4.2 TLM verification through the EGSE Ethernet Interface – Multiple Issues**

SID 128 (TSW\_SIQT\_TlmAnalog.xts)

* ITT\_Debugging\_MAR: Unable to write data to the transport connection; an existing connection was forcible closed by remote host.

Invalid comment. Reviewer did not fully understand test, procedure, or data. Explain how it should be interpreted.

Response. Ref Test Step 759. MAR PC is Disconnected from network per procedure. MAR Disconnect causes failure of Telemetry stream. Capture and analysis of MDU data not possible at this part of test.

* ITT\_Debugging\_MITE: Aborting all tests is true- Exiting

Invalid comment. Reviewer did not fully understand test, procedure, or data. Explain how it should be interpreted.

Response. Ref Test Step 759. MAR PC is Disconnected from network per procedure. MAR Disconnect causes failure of Telemetry stream. Capture and analysis of MDU data not possible at this part of test.

SID 129 (TSW\_SIQT\_TlmDiscrete.xts)

* ScriptResults shows FAIL for MDUA\_ON

Invalid comment. Reviewer did not fully understand test, procedure, or data. Explain how it should be interpreted.

Response. Ref Test Step 759. MAR PC is Disconnected from network per procedure. MAR Disconnect causes failure of Telemetry stream. Capture and analysis of MDU data not possible at this part of test.

* XTSHistory: Aborting all scripts due to analyze failure. . .Aborting all scripts due to an Abort All request

Invalid comment. Reviewer did not fully understand test, procedure, or data. Explain how it should be interpreted.

Response. Ref Test Step 759. MAR PC is Disconnected from network per procedure. MAR Disconnect causes failure of Telemetry stream. Capture and analysis of MDU data not possible at this part of test.

* ITT\_Debugging\_MAR: Unable to write data to the transport connection; an existing connection was forcible closed by remote host

Invalid comment. Reviewer did not fully understand test, procedure, or data. Explain how it should be interpreted.

Response. Ref Test Step 759. MAR PC is Disconnected from network per procedure.

* ITT\_Debugging\_MITE: Aborting all scripts due to an Analyze Failure

Invalid comment. Reviewer did not fully understand test, procedure, or data. Explain how it should be interpreted.

Response. Ref Test Step 759. MAR PC is Disconnected from network per procedure. MAR Disconnect causes failure of Telemetry stream. Capture and analysis of MDU data not possible at this part of test.

SID 130 (TSW\_SIQT\_TlmSerial.xts)

* ScriptResults shows FAIL for Stored Command Status

Invalid comment. Reviewer did not fully understand test, procedure, or data. Explain how it should be interpreted.

Response. Ref Test Step 759. MAR PC is Disconnected from network per procedure. MAR Disconnect causes failure of Telemetry stream. Capture and analysis of MDU data not possible at this part of test.

* XTSHistory: Aborting all scripts due to analyze failure. . .Aborting all scripts due to an Abort All request

Invalid comment. Reviewer did not fully understand test, procedure, or data. Explain how it should be interpreted.

Response. Ref Test Step 759. MAR PC is Disconnected from network per procedure. MAR Disconnect causes failure of Telemetry stream. Capture and analysis of MDU data not possible at this part of test.

* ITT\_Debugging\_MAR: Unable to write data to the transport connection; an existing connection was forcible closed by remote host

Invalid comment. Reviewer did not fully understand test, procedure, or data. Explain how it should be interpreted.

Response. Ref Test Step 759. MAR PC is Disconnected from network per procedure.

* ITT\_Debugging\_MITE: Aborting all scripts due to an Analyze Failure

Invalid comment. Reviewer did not fully understand test, procedure, or data. Explain how it should be interpreted.

Response. Ref Test Step 759. MAR PC is Disconnected from network per procedure. MAR Disconnect causes failure of Telemetry stream. Capture and analysis of MDU data not possible at this part of test.

SID 131 (TSW\_SIQT\_TlmAnalog.xts)

* ITT\_Debugging\_MITE: No configuration was specified in run test script request. . .using default configuration

Invalid comment. Reviewer did not fully understand test, procedure, or data. Explain how it should be interpreted.

Response. There is no Configuration setting for TSW\_SIQT\_TlmAnalog script.

SID 132 (TSW\_SIQT\_TlmDiscrete.xts)

SID 133 (TSW\_SIQT\_TlmSerial.xts)

* ITT\_Debugging\_MAR: Error – The INSERT statement conflicted with the FOREIGN key constraint. . . The conflict occurred in database “GPSIII”, table “dbo.Analyze”. . .The statement has been terminated

Known issue. List the DR if appropriate. Make sure these appear in the reference document.

Response. 2014-01-25 00:53:08.465 [3] ERROR DataStorage.DBCommon – AnalyzeFunctions.RecordAnalyzePoint() – The INSERT Statement conflicted with the FOREIGN KEY conatraint “FK\_AnalyzePoints\_Analyze”; The conflict occurred in database “GPSIII”, Table “dbo.Analyze”, Column ‘Analyze\_ID’. The Statement has been terminated. This appears to be an issue with the Test Set Software and the GPSIII Database on the network server. This issue sometimes presents itself when the server is performing software Backups. (will check with James)

**TC03, 7.1.3.4.1 Telemetry – 1 Issue**

SID 124 (Utility\_MDU\_Power\_OnOff.xts for Power Off)

SID 125 (Utility\_MDU\_Power\_OnOff.xts for Power On)

SID 126 (Utility\_MDU\_ReInitialization.xts)

* ITT\_Debugging\_MAR: Error Data Storage DB Common – The INSERT statement conflicted with FOREIGN Key constraint. . .The statement has been terminated

Known issue. List the DR if appropriate. Make sure these appear in the reference document.

Response. 2014-01-25 00:53:08.465 [3] ERROR DataStorage.DBCommon – AnalyzeFunctions.RecordAnalyzePoint() – The INSERT Statement conflicted with the FOREIGN KEY conatraint “FK\_AnalyzePoints\_Analyze”; The conflict occurred in database “GPSIII”, Table “dbo.Analyze”, Column ‘Analyze\_ID’. The Statement has been terminated. This appears to be an issue with the Test Set Software and the GPSIII Database on the network server. This issue sometimes presents itself when the server is performing software Backups. (will check with James)

SID 127 (TSW\_SIQT\_MDU\_Telemetry.xts)